

**ABSTRACT**

This invention is a mechanical gearbox for every vehicle or machinery that needs one. It works on the grounds of the differential gear as a way to obtain mechanical addition or subtraction of the motion of two different shafts. Inside this mechanism an input-shaft-motion subdivision take place over other different shafts, which speeds are recombined together by differential gears, returning over an output-shaft a wide-range of selectable speeds with their proportional torque (transmission ratios).